

KRUPSKIY, M.K. [Krups'kyi, M.K.] (Khar'kov)

To make the soil give a generous yield. Nauka i zhystia
11 no.7:30-31 Jl '61. (MRA 14:8)

1. Direktor Ukrainskogo nauchno-issledovatel'skogo instituta
pochvovedeniya, chlen-korrespondent Ukrainskoy akademii sel'-
skokhozyaystvennykh nauk.

(Ukraine—Soil research)
(Ukraine—Irrigation)

VLASYUK, Petr Antipovich, akademik, zasl. deyatel' nauki USSR;
KRUPSKIY, M.K.[Krups'kyi, M.K.], prof., otv. red.;
MASLOBOYSHCHIKOVA, O.S.[Masloboiinchykova, O.S.], red.;
POTOTSKAYA, L.A.[Potots'ka, L.A.], tekhn. red.

[Manganese nutrition and fertilization of plants] Margantsyeve
zhyvlemnia i udobrennia roslyn. Kyiv, Vyd-vo Ukrains'koi Akad.
sil'skohospodars'kykh nauk, 1962. 420 p. (MIRA 15:11)

1. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystven-
nykh nauk (for Krupskiy).

(Plants, Effect of manganese on)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

KRUPSKIY, N.

Accuracy. Voen. Znan. 41 no.5:17 My '65.

(MIRA 18:5)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

KRYLOV, A.V.; KRUPSKIY, N.I.

Dynamometer for determining the strength and stretch of a moving
thread. Tekst.prem. 15 no.11:38-39 N '55. (MLRA 9:1)

(Thread--Testing) (Dynamometer)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

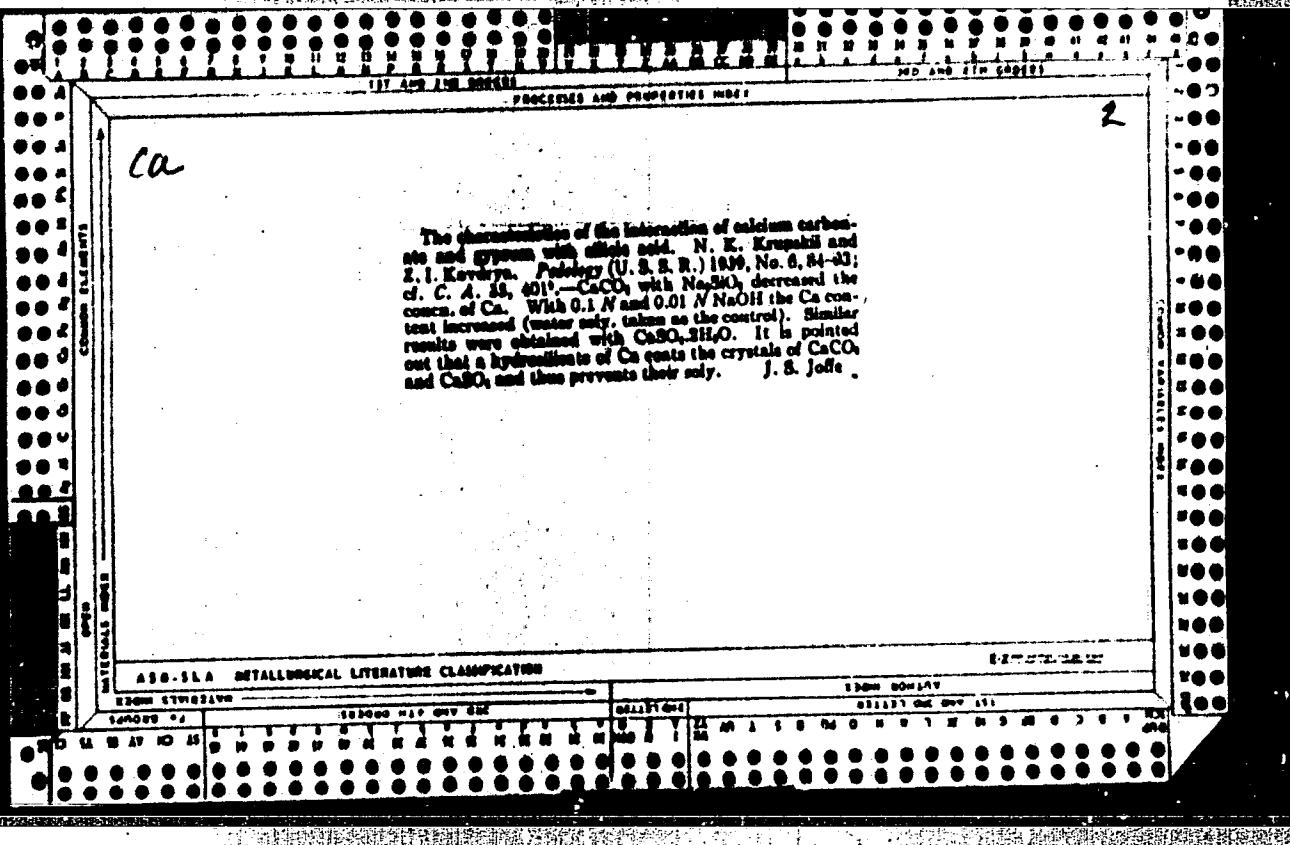
KRUPSKIY, M.I.

A starter-stopper for automatic looms. Tekst.prom. 15 no.12:36-37
D '55. (MLRA 9:3)

(Looms)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"



The reaction of calcium carbonate and calcium sulfate with sodium silicate. M. K. Krupskiy and Z. I. Kovdrya. Pedology (U. S. S. R.) 1939, No. 12, 42. --The solv. of CaCO_3 and CaSO_4 in various concns. of Na silicate solns. was investigated. With increasing concn. of Na silicate the solv. of CaCO_3 decreased; the solv. of $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ was but little affected by increasing concn. of Na silicate. The solv. of CaCO_3 in solns. of various concns. of NaOH and the kinetics of the soln. of $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ in water and in 0.1 N Na silicate soln. were investigated.

W. R. Menn

ASA-LLA METALLURGICAL LITERATURE CLASSIFICATION

ITEM SUBJECTIVE

ITEM OBJECTIVE

ITEM OBJECTIVE

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

САДОВЫЙ, А. А., Доктор технических наук.

Soil Mechanics

Experience in alkalization of soils as a measure against filtration from water reservoirs. Gidr. i mol. 5, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

GRIN', G.S.; KRUPSKIY, N.K., kandidat sel'skokhoziaystvennykh nauk; KISEL', V.D. SOKOLOVSKIY, A.N., redaktor; GRINCHENKO, A.M., kandidat sel'skokhoziaystvennykh nauk, redaktor; SHIKAN, V.L., redaktor; SIVACHENKO, Ye.K., tekhnicheskij redaktor.

[Soil characteristics of the Negayek Massif in the Ukraine from the point of view of agricultural land improvement] Agromeliorativnaia kharakteristika pochv Negaiskogo massiva Ukrayiny. Kiev, Izd-vo Akademii nauk USSR, 1955. 68 p. [Microfilm] (MIRA 9:6)

1. Deystvitel'nyy chlen AN USSR (for Sokolovskiy).
(Ukraine—Soils)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

TIURIN, I.V.; SOKOLOV, A.V.; BUSHINSKIY, V.P.; SOBOLEV, S.S.;
FRANTSSESSON, V.A.; KARPINSKIY, N.P.; BALYABO, N.K.; GRINCHENKO,
A.M.; KRUPSKIY, N.K.

Alekssei Nikanorovich Sokolovskii; obituary. Pochvovedenie
no.10:124-125 O '59. (MIRA 13:2)
(Sokolovskii, Aleksei Nikanorovich, 1884-1959)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

KRUPSKIY, N.K.; ALEKSANDROVA, A.M.; GORBAN', Yu.V.

Curves of the potentiometric titration of soil suspensions in
anhydrous solvents. Pochvovedenie no. 5:106-110 My '61.

(MIRA 14:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya.
(Soils--Analysis) (Soil acidity)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

KRUPSKIY, N.K.; ALEKSANDROVA, A.M.; KHIZHNYAK, A.I.

Determination of available aluminum in soils. Pochvovedenie
no.10:93-96 O '61. (MIRA 14:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
imoni A.N. Sokolovskogo.
(Soils--Aluminum content)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

S/081/62/000/017/033/102
B162/B 101

AUTHORS: Krupskiy, N. K., Aleksandrova, A. M., Stetsenko, M. V.

TITLE: Detection of chloride ion in muddy and colored ground extracts

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 132, abstract 17D86 (Pochvovedeniye, no. 2, 1962, 109 - 113 [summary in Eng])

TEXT: In order to determine Cl⁻ in muddy and colored aqueous ground extracts, the methods applied are potentiometric titration of a solution of the sample (0.5 ml 2N H₂SO₄ per 10 ml of sample solution) acidified with 0.002N AgNO₃ solution using an indicating silver chloride electrode (Pt-wire, covered with a mixed paste of Ag₂O and AgCl (7:1) and calcined at 450°C); and visual mercurimetric titration with diphenyl carbazole as indicator in the presence of benzene. To 10 ml of the sample solution, 10 ml of water and then a few drops of 1% solution of diphenyl carbazole are added, neutralized with a 0.2N HNO₃ solution (till yellow color), 5 ml of benzene is added and the mixture titrated with a 0.01N Hg(NO₃)₂.
Card 1/2

Detection of chloride ion...

S/081/62/000/017/033/102
B162/B101

solution until the yellow color of the organic layer changes into violet-blue. Colorless and transparent solutions are titrated without benzene using a mixture of diphenyl carbazole with β -dinitrophenol as indicator. It is expedient to use mercurimetric titration, as a more simple way, when a great number of determinations is made. [Abstracter's note: Complete translation.]

✓

Card 2/2

KRUPSKIY, N.K.; ALEKSANDROVA, A.M.; GUBAREVA, D.N.

Determining the pH value in soils of the Ukrainian S.S.R.
Pochvovedenie no.4:70-78 Ap '62. (MIRA 15:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
imeni A.N.Sokolovskogo.
(Ukraine--Soil acidity)

KRUPSKIY, N.K.; TSYGAMENKO, O.Yu.

Studying ion exchange processes in soils under dynamic conditions.
Pochvovedenie no.8:103-106 Ag '63. (MIRA 16:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
imeni A.N.Sokolovskogo.

VLASYUK, P.A., akademik, otv. red.; KOLOMIYTSEVA, N.G., prof.,
red.; ENUPSKIY, N.K., prof., red.; KLEMOTSKAYA, Z.M.,
doktor biol. nauk, red.; KURINKAYA, N.F., kand. med.
nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.;
KAPITANCHUK, V.A., red.; RUDAKOVA, E.V., kand. biol. nauk,
red.; SKUTSKAYA, N.P., red.

[Use of trace elements in agriculture; Republic interde-
partmental collection of papers] Primenenie mikroelementov
v sel'skom khoziaistve; Respublikanskii mezhvedomstvennyi
sbornik. Kiev, Naukova dumka, 1965. 218 p.

(MIRA 18:7)

1. Akademiya nauk UkrSSR, Kiev. 2. Institut fiziologii rasteniy
Ukr.SSR (for Vlasyuk, Rudakova).

KRUPSKIY, N.K.; GASAN, P.A.

Colloid-chemical technology of soils and their colmatage
technique. Dokl. AN SSSR 165 no.5:1132-1134 D '65.

(MIRA 19:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
im. A.N.Sokolovskogo. Submitted May 21, 1965.

1. KRUPSKIY, ... V.
 2. USSR (600)
 4. Constitutional Law
 7. Concept of the Soviet state system.
Vest. Mosk. un 7 no. 7, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KRUGOVY, T. T. (T. T. Krugovyy)

Tablets (Medicine)

Relay protection against breakdowns of the automatic tablet-making machine. Med. prom. No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 ~~1953~~, Uncl.

KRUPSKY, E.

The Czech book in the Soviet Union. p.24.
(Slnice, Vol. 6, No. 5, May 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) 1C. Vol. 6, No. 9, Sept. 1957. Uncl.

KRUPSKY, E.

"Research on highway traffic."

p. 9 (Slnice) Vol. 6, no. 10, Oct. 1957.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

KRUPSKY, Emil, inz.

Road capacity and the speed of vehicles. Siln doprava 11
no.10:25 S '63.

KOROB, A.D.; FERDMAN, I.A.; KRUPSKIY, V.I.

Testing capron gear wheels in machine tools. Stan. i instr.
36 no.11;30-31 N '65.
(MIRA 18:11)

L 36378-66 EAT(m)/T

ACC NR: AP6017591

SOURCE CODE: UR/0367/66/003/002/0321/0326

AUTHOR: Vishnevskiy, M. Ye.; Galanina, N. D.; Semenov, Yu. A.; Krupchitskiy, P. A.;
Berezin, V. M.; Murysov, V. A.

ORG: none

52

TITLE: Measurement of the mass difference of K_2^0 and K_1^0 mesons

41

SOURCE: Yadernaya fizika, v. 3, no. 2, 1966, 321-326

19

B

TOPIC TAGS: K meson, mass spectrometry, pion, meson interaction

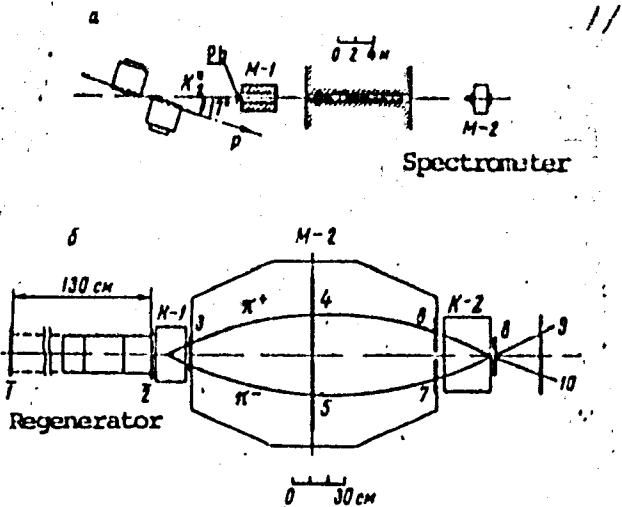
ABSTRACT: In view of the discrepancies between the experimentally measured mass differences of the K_2^0 and K_1^0 mesons, the authors have measured this mass difference by a coherent regeneration method, based on measurement of the dependence of the intensity of the coherent regeneration of K_1^0 mesons in a beam of K_2^0 mesons on the thickness of the regenerator (copper or aluminum). The experiment was carried out in the ITEF 7-Gev proton accelerator (Fig. 1). The method and the apparatus are briefly described. The K_1^0 mesons were registered by means of the $K_1^0 \rightarrow \pi^+ + \pi^-$ decay with the aid of a magnetic spectrometer with scintillation counters and spark chambers. The distributions of the interaction events with respect to the masses of the decaying particle and with respect to the angle between its momentum and primary-beam directions are given. A total of 196 coherently-regenerated K_1^0 mesons were found in 375 tracks. A mass difference of $0.82 \pm 0.14 (\text{m}/\tau_1 c^2)$, where $\tau_1 = 0.92 \times 10^{-10}$ sec, was obtained. The distribution of the registered K_1^0 mesons had a maximum at 1.8 Gev/c and dropped to zero at 0.9 and 4 Gev/c. This result agrees well with those obtained by others

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L 36378-66

ACC NR: AP6017591

Fig. 1. Experimental setup. a - Beam diagram, b - magnetic spectrometer diagram (the numbers denote particle counters).



using similar methods. The authors thank A. I. Alikhanov and S. Ya. Nikitin for interest in the work, L. B. Okun' and I. Yu. Kobzarev for discussions, L. I. Gol'din and his crew for operating the accelerator, and A. K. Dubasov, V. N. Markizov, N. P. Naumov, V. F. Stolyarov, V. N. Kuz'menkov, and Yu. S. Oreshnikov for help with the apparatus and the measurements. Orig. art. has: 4 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 30Jun65/ ORIG REF: 003/ OTH REF: 006
Card 2/2 and

KROPTSKY, B. A.

REFERENCES:

Bogatov, I. N., Nesterov, Academy of Sciences, 20-115b-263
Zhur. Gidro. i P. R. Kalin. S. M., Mechikin, V. S., Resarzov,
L. I., Stenugina, T. P., Krupitskaya, Z. E., University, O. V.
Kirovograd, 2. 1957.

The Condensation of Acetylene With Methane or Acetone. I. Acetone (condensatively) and Acetylene (condensatively) and Acetone and Acetone (condensatively) and Acetone. II. Acetone (condensatively) and Acetone (condensatively) and Acetone (condensatively). The Synthesis of Linoleic and Its Derivatives (Acids, Esters, Ester-alkalis, 1-Propenoate)

Radiotekhnika i elektronika, 1957, Vol. 14, No. 4, pp. 796-799
(Radioelectronics, 1957, Vol. 14, No. 4, pp. 796-799)

Several years ago a simple method of synthesis of organic esters and ester-alkalis was carried out in the laboratory of the Institute by means of condensative polymerization of aldehydes and ketones under the influence of powdery polyacrylic peroxide (5% of acetyl peroxide) (see the references). It was of interest to compare this method in the condensations of acetone with methylmethacrylate and similar ketones. In order to obtain the correspondingly functional ester-alkalis, diethyl and propene oxide were employed nearly by partial hydrogenation with a Ni-catalyst. Diethyl and propene oxides normally were carried out under influences of metallic oxides in a solution of liquid ammonia.

ABSTRACTS:
ABSTRACTS:

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We found that acetophenone and its various analogues may be condensed very easily with acetone and acetone-alkalis under the corresponding influences. At least they give an almost quantitative yield (nearly one hundred percent) with an almost quantitative yield (more than 90%). This reaction may also be carried out without any catalyst. Reactions may proceed slowly and with a yield of only 50%. It has been previously shown in the same laboratory that acetone alone, when treated with some substituted and cyclized phenylhydrazine derivatives, gives a high yield of acetophenone in the presence of palladium over platinum catalyst or copper coated alumina powder. Theory and other theoretical yields are obtained. The acetophenone analogues may be selectively hydrogenated with either catalytic aluminum (Al-Pt) and are therefore soluble in the presence of some vinyl alcohol. As a consequence, the hydrogenation of the acetophenone analogues may be carried out with the hydrogenation of the phenylhydrazine derivatives which are obtained by condensation of acetone with acetophenone and its analogues. The acetophenone analogues may also be highly selectively hydrogenated in the presence of a Pt-catalyst. They form linoleic and its derivatives

with an almost theoretical yield. The partly condensate of the acetophenone (linoleic and its analogues) was carried out by means of the acetone-alkali (nickel-methacrylate solution of acetyl or propyl oxide), whose concentration was determined by titration and amounted to 0.2-0.3%. At the hydrogenation, the allyl group disappears with a Nickel-alloy. The density loss of the allyl disappears at the theoretical point. That is, only one hydrogen molecule is strongly attached. The results in Table 1, linoleic and its analogues (Table 1) are obtained by a partial hydrogenation of the phenylhydrazine derivatives with a Pt-catalyst. In the experimental part detail, the yields of the odd substances are described in detail. There are 2 tables and 3 references, 3 of which are

by I. V. Resarzov
March 12, 1957

REFERENCES:
Card 2/4

Institute for Organic Chemistry, Izhevsk 35. N. S. Koltunov of the All-Union Research Institute for Petrochemical Chemical Technology, Izhevsk 35. N. S. Koltunov (Institute for Petrochemical Chemical Technology, Izhevsk 35. N. S. Koltunov and N. G. Slobodchikova (Institute for Petrochemical Chemical Technology, Izhevsk 35. N. S. Koltunov and N. G. Slobodchikova)

Authors: V. P. Lebedev, Maltsev, S. N. 20-211-6-25/26
 Beznosikov, V. Yu., Kuznetsov, P. V., Vinogradov, V. P.
 Ershov, D. K., Matrosov, I. T. and Shchepetkin, G. L.

Title: The Synthesis of Methylbenzenes and Methylphenolbenzenes
 Analogs (Stilts methylbenzenes 1-methylphenolbenzenes)

Publ. All SSR, 1957, Vol. 114, No. 2, pp. 1242-1245 (RUS)

Keywords:

Abstract: The synthesis is of interest for the production of a number of corresponding analogues of natural terpenoids compounds. The initial methylbenzenes used for this purpose - pinene, p-cymene, and limonene - are produced by the authors method (reference 1). Pinene is converted in the presence of palladium catalyst to a mixture of isomeric allylic alcohols which are almost quantitatively converted to corresponding vinyl alcohols (reference 2). These latter yield the corresponding analogues of methylbenzenes in high yields (reference 3). Methylbenzenes are also synthesized by the addition of hydrogen vapors (tertiary vinyl alcohol at 0-10°C per cent) to alkyl derivatives of allylic alcohols at 0-10°C per cent (reference 4). Their combination with dimethylacetone-oxime - either with a subsequent separation or

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leads to methylbenzene and benzene. Method 2: At 160°C tertiary vinyl alcohol directly reacts with the same ester. An almost theoretical quantity of ethanol and CP₂ is consumed and the same analogues as in 1) are obtained. By the method of addition of allylic alcohols to allylic alcohols in the presence of alkali metals or alkali metal hydrides, equivalents of all elements of terpenoids are synthesized. Some of these alcohols are converted to pinenes, equivalents of which are found in the above-mentioned analogues (table 2). Thus pinylene also leads to the above-mentioned analogues (reference 6). The 2,6-dimethyl-2-allylcyclohexane (reference 7) necessary for the synthesis of isopinene and isobornyl (isobornyl ether) was produced by the last method of methyl-lithium upon methyl-oximepinene. All methylbenzene analogues produced are compiled in table 1. The authors further produced: allyl-(1) (reference 8), allyl-(2), allyl-(3) and chloroallyl-methanes (XII) (reference 9), allyl-allylbenzene (XIII), methyl-allylbenzene (XIV), allylbenzene (XV) and tertiary methoxybenzenes (XVI). The synthesis methods and complete list of references are given. There are 2 tables and 12 references, of which are listed.

Card 2/2

Associations: Institute of Organic Chemistry
 All Union and Institute for Physical
 Chemistry
 V. P. Lebedev, Moscow (Institute of
 Organic Chemistry, All Union and
 V. P. Lebedev, Moscow (Institute of
 Physical Chemistry, All Union))

Date 12, 1957

Serial No.:

Card 1/2

AUTHORS: Nazarov, I. N., Member of the Academy, 20-117-5-27/54
(Deceased), Makin, S. M., and Krupsov, B. K.

TITLE: The Synthesis of Ethoxyisoprene (Sintez etoksiizoprena).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 823-825 (USSR)

ABSTRACT: The alkoxydienes are interesting for the organic chemistry by the presence of 2 double conjugated formations since they can be used furthermore for the synthesis of various substances in consequence of a alkoxyl group capable of reaction. Especially interesting is the ethoxy-isoprene (1-ethoxy-3-methyl-butadiene-1,3) since it can be used for the synthesis of important isoprenoids (zitral, vitamin A, carotene and others). It has a methyl-branched in the third position and has therefore an isoprenoid structure. Reactions (I) - (IV) are given by means of which the authors have obtained the synthesis mentioned in the title. By action of tetraethoxysilane on acetone the acetone-diethyl-ketal (II) was obtained. The syntheses according to former references (reference 1) led to only small yields (10-15%). The authors obtained yields of 92% of acetone-ketal (in presence of 0,5 mol ethanol pro 1 mol tetra-ethoxysilane) by the application of phosphorous acid of 85 % as catalyst. Acetone-

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The Synthesis of Ethoxyisoprene

20-117-5-27/54

diethylketal was then introduced into the condensation reaction with vinyl-ethyl-ether. The addition of ketals to these ethers was hitherto scarcely researched. The authors succeeded in carrying out this reaction at 0° and in presence of catalytic quantities of tri-fluorboron-ethyrate with a yield of 85% of 3-methyl-1, 1,3 triethoxybutane, with reference to the acetone-diethylketal which entered into the reaction. In order to prevent a further condensation a ketal excess has to be used which is higher by 1,5 times. In the case of passage of vapors of the 1,1,3-triethoxy-3-methylbutane by $MgHPO_4$ -catalyst at 350° in a 15-20 mm-vacuum 2 alcohol molecules are splitted off and ethoxyisoprene is formed with a yield of 77%. Furthermore this latter substance was obtained with a good yield in the passage of vapors of the β -methyl-croton-aldehyde-diethylacetal over the contact catalyst NaH_2PO_4 . The initial substance in question was produced from iso-valerian-aldehyde (reference 4). In the experimental part the usual data are given with the preparation of the catalyst.

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The Synthesis of Ethoxyisoprene

20-117-5-27/54

There are 6 references, none of which are Slavic.

ASSOCIATION: Institute for Fine Chemical Technology imeni M. V. Lomonosov,
Moscow (Moskovskiy institut tonkoy khimicheskoy
tekhnologii im. M. V. Lomonosova).

SUBMITTED: September 11, 1957

Card 3/3

FLID, R.M.; KRASOTKIN, A.Ye.; SHPICHINETSKAYA, L.S.; CHIRIKOVA, A.V.;
BELYIY, A.P.; BARATS, M.I.; KRUPTSOV, B.K.; BELYANINA, Ye.T.

Effect of alkaline admixtures on catalytic oxidation of primary
alcohols to aldehydes. Khim.nauk i prom. 3 no.5:683 '58.

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova.
(Alcohol) (Oxidation) (Catalysts)

AUTHORS: Nazarov, I. N. (Deceased), Mokin, S. M., SOV/79-29-1-25/74
Kraptsov, B. K., Mironov, V. A.

TITLE: Synthesis of Acetals and Ketals by Means of Tetraalkoxy-Silanes (Sintez acetaley i ketaley s pomoshch'yu tetralkoksilanov)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 105-111 (USSR)

ABSTRACT: It is known that the most suitable acetylating agents are the esters of the ortho-formic acid. Owing to their high costs they can however not be used as initial substance for the synthesis of acetals. As a substitute for the above esters the authors chose the easily available esters of the ortho-silicic acid (tetraalkoxy-silanes). Helferich and Hansen (Ref 1) found that the tetraalkoxy-silanes are able to acetylate aldehydes and ketones in alcoholic medium in the presence of hydrogen chloride. The authors met however with many difficulties at the attempt to obtain some acetals and ketals according to this method and the yields were also small. For this reason, they investigated thoroughly the reaction of the tetraalkoxy-silanes with aldehydes and ketones under different conditions. On the reaction of acetone with

Card 1/3

Synthesis of Acetals and Ketals by Means of
Tetraalkoxy-Silanes

SOV/79-29-1-25/74

tetraalkoxy-silane they used HCl, concentrated H_2SO_4 , p-toluenesulfonic acid, phosphoric acid, etc. as catalysts for the acetylation. Phosphoric acid proved to be the most suitable catalyst. In contrast with the general opinion, tetraalkoxy-silanes react well with aldehydes and ketones in the presence of some alcohol. Thus the diethyl ketal of acetone with tetraethoxy-silane was obtained in 93 % yield, on addition of 0.5 % alcohol only. Many other acetals of various aldehydes, ketones, etc. were synthesized also with good yields and very limited use of alcohol. The small alcohol quantity is important in the synthesis of low-boiling acetals and ketals: It is thus possible to obtain in the distillation the acetal and ketal with minute alcohol quantities which can easily be removed by water, which is rather difficult at higher quantities of alcohol. In the synthesis of high-boiling acetals the amount of the easily separable alcohol is of no importance. In the acetylation of the croton aldehyde the alcohol quantity is of particular importance: At 0.1-0.2 mol alcohol with 1 mol aldehyde dimethyl and diethyl acetal were resulting in a yield

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Synthesis of Acetals and Ketals by Means of
Tetraalkoxy-Silanes

SOV/79-29-1-25/74

up to 80 %. On addition of more than 1 mol alcohol 1,1,3-trialkoxy-butanes are formed as main products (Ref 2). Without any alcohol the reaction yields 47 % only. For the removal of the acetals and ketals two methods were applied according to whether they are lower or higher boiling than the tetraalkoxy-silanes used in the reaction (see experimental part). The diethyl acetals of the croton aldehyde and methyl heptenone were obtained in good yield by the esters of ortho-formic acid as well. Both tables present all acetals and ketals synthesized. There are 2 tables and 3 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology)

SUBMITTED: July 19, 1957

Card 3/3

AUTHORS: Nazarov, I. N. (Deceased), SOV/79-29-1-26/74
Makin, S. M., Krupitsov, B. K., Mironov, V. A.

TITLE: Synthesis of Vinyl and Diene Ethers (Sintez prostykh vinilo-vykh i diyenovykh efirov)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 111-117 (USSR)

ABSTRACT: In the passage of the vapors of dimethyl and diethyl acetals of the acetone of acetic acid, propionic, butyric acid, iso-butyric acid, as well as of the dimethyl and diethyl ketals of acetone and cyclohexanone over NaH_2PO_4 and MgHPO_4 (as catalysts) at 300-375° the authors obtained the substituted vinyl ethers listed in table 1. The simple diene ethers are considerably interesting in organic chemistry since they possess two conjugated double bonds and a reactive alkoxy group. Furthermore, methoxy and ethoxy isoprenes were synthesized and the methoxy and ethoxy butadienes previously described (Refs 7,8,9) were investigated. The alkoxy dienes specified were obtained by catalytic cleavage of the acetals of croton and β -methyl-croton aldehyde, as well as of the 1,1,3-trialkoxy-butanes and 1,1,3-trialkoxy-3-methyl butanes. The dimethyl and diethyl

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Synthesis of Vinyl and Diene Ethers

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acetals of β -methyl-croton aldehyde were synthesized according to scheme 1 in the presence of small quantity of $BF_3 \cdot O(C_2H_5)_2$, the butanes mentioned according to reference 7 and scheme 2 (Refs 11, 14, 15, 16). The catalytic cleavage of the acetals of croton and β -methyl-croton aldehyde, as well as of the trialkoxy-butanes into the simple diene ethers was thus carried out on the catalysts NaH_2PO_4 and $MgHPO_4$. Active charcoal, silica gel, and glass were used as carriers. This process proceeded in vacuum 10-20 mm in the nitrogen current (Scheme 3). The maximum yield of ethoxy-isoprene was attained on the catalysts $MgHPO_4$ on active charcoal and $MgHPO_4 \cdot Na_3IO_3$ (Table 2). As to durability, $MgHPO_4$ on charcoal proved to be the best catalyst. The activity of the catalysts produced from NaH_2PO_4 decreases more rapidly. On the catalytic cleavage of the 3-methyl-1,3-dimethoxy-1-ethoxy-butane a mixture from methoxy- and ethoxy-isoprene resulted in about the same quantity. There are 2 tables and 16 references, 8 of which are Soviet.

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Synthesis of Vinyl and Dicne Ethers

SOV/79-29-1-26/74

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow
Institute of Fine Chemical Technology)

SUBMITTED: September 10, 1957

Card 3/3

507/79-27-3-4/61
 Author: L. S. (Deceased). Matas, S. N., Buchbinder, V. B.,
 Shavitzman, G. A., Reznikov, D. V., Kruglova, E. E.
 Title: Synthesis of Analogs of Geranyl Acetate and Farnesolone
 (Stanol Analogs of Geranyl Acetone and Farnesolone)

Periodicals: Journal of Organic Chemistry, 1959, Vol. 24, No. 1, pp 744-752 (RSNI)

ABSTRACT: These analogues are initial products for the synthesis of the corresponding analogues of the two important natural terpenoid compounds, i.e. stanols. As well as of polyisoprenoids, components of resins, and 2, 3-dienyl esters of geranyl, a component of vitamins K and E. Recently, the authors reported on three syntheses of the farnesol type carried out by them: 1) By reduction of isoprene oxide with NaOH derivative of allyl-type (method 1). 2) By reduction of vinyl- and allyl-type carboxylic acid acetates (method 2). 3) By hydrolysis of the acetoxides of vinyl- and allyl esterifiable (method 3). This method was used to obtain methyl heptadecanoate, heptadecene and their analogues (Series I). - My condensation of methyl heptadecene and its analogues with acetoxides under pressure (5-10 atm) afforded esters present in cyclohexane and the analogues resulted almost quantitatively. These esters

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Analogue was transformed by partial hydrogenation over a palladium slate (method 1). The three methods used for the synthesis of the isoprene-like type were also employed for the synthesis of various analogues of geranyl, acetoxyl, and vinyl esterifiable (method 1). The types of synthesis of the farnesolone and farnesene was described earlier and will not be repeated here. The synthesis of the analogues I and II is similar to the synthesis of the analogues of geranylacetone (method 1) (Tables 2, 3, 7). The synthesis of acetoxylates of the hydroperoxylic, propenylidene, and vinylidene analogues leads to one of the peroxideless isomers. The other is obtained but in small quantities which is the case with the farnesolone analogue (method 1). There are stereoisomeric forms (Table 3) more separated in form of their hydroperoxides. The isoprene-type isomers are characterized by absorption spectra in the ultraviolet range. There are 3 tables and 7 references, 5 of which are Soviet.

ASSOCIATION: Research Institute, Soviet Ministry of Chemical Technology
 (Russia Institute of Pure Chemical Technology)

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84876

158104

S/079/60/030/010/016/030
B001/B066AUTHORS: Makin, S. M. and Krupsov, B. K.TITLE: Chemistry of Unsaturated Ethers. V. Acetals of Vinyl
Acetaldehyde. A New Method of Synthesizing 1-Alkoxy-
dienes-1,3PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 10,
pp. 3276 - 3280

TEXT: The authors of the present paper investigated the autocondensation of vinyl ethyl, vinyl butyl, and vinyl isoamyl ethers in the presence of $\text{BF}_3 \cdot \text{O}(\text{C}_2\text{H}_5)_2$, in the complex with HgO , $\text{Hg}(\text{OCOCH}_3)_2$, HgSO_4 , HgCl_2 , of FeCl_3 , in the complex with HgO and $\text{Hg}(\text{OCOCH}_3)_2$, and of ZnCl_2 in the complex with HgO . Acetone, dimethyl formamide, diethyl ether, nitro-methane, and acetophenone were used as solvents. The autocondensation was most efficient in acetone or diethyl ether when using $\text{BF}_3 \cdot \text{O}(\text{C}_2\text{H}_5)_2$ in the complex with HgO or $\text{Hg}(\text{OCOCH}_3)_2$. The acetal of vinyl acetaldehyde

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Chemistry of Unsaturated Ethers. V. Acetals S/079/60/030/010/016/030
of Vinyl Acetaldehyde. A New Method of B001/B066
Synthesizing 1-Alkoxy-dienes-1,3

and a small amount of condensation products of this acetal with vinyl alkyl ethers was thus obtained. In the absence of $\text{BF}_3 \cdot \text{O}(\text{C}_2\text{H}_5)_2$, HgO and mercury acetate are ineffective. On the other hand, vinyl alkyl ethers are known to polymerize readily in the presence of $\text{BF}_3 \cdot \text{O}(\text{C}_2\text{H}_5)_2$, so that the autocondensation was assumed to take place in two stages, first under the formation of an acetal acylal (III) (Ref.4) which is added in the second stage to the other molecule of the vinyl alkyl ether by means of the catalyst (Refs.5-7) (Scheme 2). The autocondensation of vinyl alkyl ethers by means of $\text{HgO} + \text{BF}_3 \cdot \text{O}(\text{C}_2\text{H}_5)_2$ obviously takes place according to Scheme 3. The resultant acetals of vinyl acetaldehyde are added to a molecule of the vinyl alkyl ether, thus forming 1,1,3-trialkoxy compounds (VI) (Scheme 4). This reaction, however, proceeds slowly and with low yields of the compounds (VI). The highest yield was 24%. The infrared spectra of the autocondensation products of vinyl ethyl and vinyl butyl ethers showed frequencies characteristic of the vinyl group ($\text{CH}_2=\text{CH}-$) (Ref.9). The spectrum of the diethyl acetal

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Chemistry of Unsaturated Ethers. V. Acetals S/079/60/030/010/016/030
of Vinyl Acetaldehyde. A New Method of B001/B066
Synthesizing 1-Alkoxy-dienes-1,3

of croton aldehyde shows an absorption band characteristic of a substituted vinyl group (Ref. 9). When passing acetal vapors of vinyl acetaldehyde in vacuo at 350°C over the acid catalyst MgHPO₄, 1-alkoxy-butadiene-1,3 (VII) resulted (Scheme 5). With maleic aldehyde, the 1-alkoxy-dienes-1,3 gave the adducts (VIII). Their hydrolysis (Scheme 6) yields crystalline alkoxy-tetrahydrophthalic acids (IX). There are 12 references: 9 Soviet, 2 US, and 1 Japanese.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii ✓
(Moscow Institute of Fine Chemical Technology)

SUBMITTED: December 7, 1959

Card 3/3

KRUPTSOV, B. K.

Cand Chem Sci - (diss) "Synthesis and transformations of simple vinyl and diene esters." Moscow, 1961. 15 pp; (Academy of Sciences USSR, Inst of Organic Chemistry imeni N. D. Zelinskiy); 200 copies; price not given; (KL, 6-61 sup, 198)

MAKIN, S.M.; KRUPTSOV, B.K.

Chemistry of unsaturated ethers. Part 5: Acetals of vinylacetaldehyde.
New method of synthesizing 1-alkoxy-1, 3-dienes. Zhur. ob. khim. 30
no.10:3276-3280 O '61. (MIRA 14:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii.
(Ethers) (Acetaldehyde)

MAKIN, S.M.; KRUPTSOV, B.A.

Chemistry of unsaturated ethers. Part 12: Structural orientation
of diene condensations of 1-alkoxydienes with asymmetrical
dienophyils. Zhur. ob. khim. 32 no.8:2521-2527 Ag '62.

(MIRA 15:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V. Lomonosova.

(Butadiene) (Ethers)

MAKIN, S.M.; KRUPTSOV, B.K.; MEDVEDEVA, V.M.; SMIRNOVA, L.N.

Chemistry of unsaturated ethers. Part 13: Reaction of acetalization
of 1,1,3-trialkoxalkanes and the synthesis of 1-alkoxy-1,3-dienes
with heavy alkoxyl groups. Ultraviolet spectra and Raman spectra
of 1-alkoxy-1,3-dienes. Zhur. ob. khim. 32 no.8:2527-2535 Ag '62.
(MIRA 15:9)

1. Moskovskiy institut tolkoy khimicheskoy tekhnologii imeni M.V.
Lomonosova.

(Butadiene—Spectra) (Alkoxyl groups)

KAMTEVA, A.J., MOZTCHEV, L.A., NEMETIAN, KH.ZS., PAVLICHEV, A.J.,
AKHIEZER, S.M., KUPTSEOV, B.K.

Experimental data about the production of phthalic anhydride by oxidation of o-xylol

Report to be submitted for the 12th Conference on high molecular weight compounds
devoted to monomers, Baku, 3-7 April 62

FILIOVIV, A.N.; KRUPUNOV, G.P.

Addition of diphosphorous acid anilide to Schiff bases. Zhur.
ob. khim. 35 no.8:1502-1503 Ag '65. (MJPA 18:8)

1. Kazanskiy gosudarstvennyy universitet.

AL'PARIN, P.M., doktor med.nauk; ANSHEVITS, M.Ya.; GUREVICH, I.B.; KRUPYANKO,
V.Ye.; MELNIKOVA, O.P.; RODINA, R.I. (Moskva)

Compound treatment of suppurative diseases of the lungs. Vrach.delo
no.12:1343 D '57.
(MIRA 11:2)

1. Tsentral'nyy ordena Lenina Institut hematologii i perelivaniya
krovi.
(LUNGS--DISEASES)

~~BUZYANKO, V. I.~~

Effect of blood transfusion on renal function and plasma flow in anemias [with summary in English, p.62]. Probl. gemat. i perel. krovi 4 no.2:46-49 F '59. (MIRA 12:2)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i pereli-vaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bag-dasarov) Ministerstva zdravookhraneniya SSSR.

(ANEMIA, ther.

blood transfusion, eff. of homologous blood on renal funct. (Rus))

(BLOOD TRANSFUSION, in var. dis.

anemia, eff. of homologous blood on renal funct. (Rus))

(KIDNEYS, physiol

eff. of transfusion of homologous blood in ther. of anemia (Rus))

AL'PERIN, P.M., prof.; ANSHEVITS, M.Ya.; GUREVICH, I.B.; KRUPYANKO, V.Io.;
MELEKHOVA, O.P.; RODINA, R.I.

Treating bronchiectasis and abscess of the lungs with antibiotics
in combination with hemotherapy. Sov.med. 24 no.9:51-56 8 '60.

(MIRA 13:11)

1. Iz Tsentral'nogo ordena Lenina instituta hematologii i pereli-
vaniya krovi (dir. - deyствител'nyy chlen AMN SSSR prof. A.A.
Bagdasarov) Ministerstva zdravookhraneniya SSSR.
(BRONCHIECTASIS) (LUNGS—ABSCESS) (ANTIBIOTICS)
(BLOOD—TRANSFUSION)

BAGDASAROV, A.A., prof. [deceased]; AL'PERIN, P.M., prof.; KLUZYANKO,
V.Ye.; POLUSHINA, T.V. (Moskva)

Use of polyglucin in the treatment of edema. Klin.med. no.1:
91-94 '62.
(MIRA 15:1)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i pereli-
vaniya krovi (dir. - deyствител'nyy chlen AMN SSSR prof. A.A.
Bagdasarov [deceased]).

(DEXTRAN) (EDEMA)

KRUPYANSKAYA, V.Yu.

"Some aspects of the mode of life of workers of the Chiatura
manganese industry." A.I.Robakidze. Reviewed by V.IU.Krupian-
skaya. Sov. etn. no.3:160-162 '54. (MLRA 7:11)
(Chiatura--Labor and laboring classes) (Labor and
laboring classes--Chiatura) (Robakidze, A.I.)

KRUPYANSKAYA, V. Yu.

AUTHOR: Krupyanskaya, V. Yu., Candidate of Philological Sciences 30-2-27/49

TITLE: Scientific Connections Between Ethnographers of the Soviet Union and of Czechoslovakia (Nauchnyye svyazi mezhdu etnografami Sovetskogo Soyuza i Chechoslovaki)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 2, p 92.
(USSR)

ABSTRACT: Soviet scientists took part in conferences dealing with the way of life of the workers which were called by the Czechoslovakian and Slovakian Academy of Science. The Czechoslovakian specialists for problems of the way of life of the worker K. Foytik and O. Skal'nikova visited the scientific conferences of the Institute for Ethnography of the AN USSR. K. Foytik, O. Syrovatka, O. Skal'nikova, V. Korbusitskiy and Ya. Iyekh investigated several industrial areas of the country and compiled monographs on this field. The author had been invited to attend a meeting of the Slovakian Academy of Science at the end of 1957. A number of general questions were investigated: the application of the method of enquete in monographic research, the way of

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Scientific Connections Between
Union and of Czechoslovakia

Ethnographers of the Soviet

30-2-27/49

investigating the intellectual life of the population and
the coordination of work. The author in particular underlines
the here applied method of parallel folkloristic and
ethnographic investigations.

AVAILABLE: Library of Congress

1. Ethnology-Czechoslovakia
2. Ethnology-USSR
3. Economic conditions-Czechoslovakia

Card 2/2

KRUPYANSKAYA, V. YU. PUTAPOV, L. P. TERENTIEVA, I. I.

"PROBLEMES ESSENTIELS DE L'ETUDE ETHNOGRAPHIQUE DES PEUPLES DE L'URESS"

*report presented
at The Sixth International Congress on Anthropological and Ethnological
Sciences, Paris 31 July-7 August 1960.*

KRUPYANSKIY, F.

Yu

Organizatsiya i planirovaniye pochtovoy svyazi (Organization and planning of postal communications by) A. A. Vishnevskiy i F. Yu Krupyanckiy Moscow, Uvazizdat, 1952.
458 p. diagrs., tables.

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SOLOVEYCHIK, L.M.; GENIN, L.S.; KRUPYANSKIY, F.Yu.; RAZGOVOROV,
A.V.; TRAUBENBERG, I.A.; RUBINA, P.M., otv. red.; KUZ'MINA,
R.A., red.

[Principles of the methodology of planning future needs
in general usage service] Osnovy metodologii perspektivnogo
planirovaniia potrebnosti v sviazi obshchego pol'zovaniia;
informatsionnyi sbornik. Moskva, Sviaz', 1964. 77 p.
(MIRA 17:12)

VISHNEVSKIY, Aleksandr Appolinar'yevich, doktor ekon. nauk, prof.;
KRUFYANSKIY, Fedor Yur'yevich, kand. ekon. nauk, dots.;
PAPINAKO, I.G., red.

[Organization and planning of postal communications] Organiza-
tsiia i planirovaniye pochtovoi sviazi. Moskva, Izd-vo
"Sviaz", 1964. 328 p. (MIR 17:8)

KRUPYANSKIY, Fedor Jur'yevich; VISHNEVSKIY, A.A., redaktor; ANDRYSHEKO, Z.D.,
PRUDOVYY, A.N., tekhnicheskaya, L.M., tekhnicheskii redaktor

[Labor productivity in communication] Proizvoditel'nost' truda v
khoziaistve sviazi. Moskva, Gos.isd-vo lit-ry po voprosam sviazi
i radio, 1954. 34 p. [Microfilm] (MIRA 9:3)
(Communication and traffic) (Labor productivity)

KRUPYANSKIY, I.Yu.; VLASOV, M.A., otvetstvennyy redaktor; SIDOROVA, T.S.,
redaktor; BERESLAVSKAYA, L.Sh., tekhnicheskiy redaktor.

[Labor productivity in communications and ways of increasing it]
Proizvoditel'nost' truda v khoziaistve sviazi i puti ee povysheniiia.
Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1957. 67 p.
(MLRA 10:4)

(Labor productivity) (Telecommunication)

KRUPYSHEV, G.N.

PA - 3111

AUTHOR: ZHEZHERIN, R.P., KRUPYSHEV, G.N., MARTYNOV, A.M. (Leningrad)
TITLE: A Parametric Generator.
PERIODICAL: Elektrichestvo. 1957, Nr 5, pp 69 - 71 (U.S.S.R.)
Received: 6 / 1957 Reviewed: 7 / 1957

ABSTRACT: The parametric 3PG generator finds its practical application as a power supply source for radio technical and other installations with an output from several dozen to several hundred watts. It is an A.C. machine whose ferromagnetic rotor exhibits its own cogged form and which has no windings. The 3PG generator forms its own group of machines. The selfregulation of the generator is investigated and then the working characteristics. The greatest interest for the practical application of the 3PG is its use as a single phase current source with raised frequency in connection with an effective load. The peculiarity of the 3PG with a given torrional moment is that by reducing the effective load P_2 hardly changes its speed at all. The output consumed by the generator, however, appears in itself as loss. The 3PG is very simple in its construction which guarantees its dependability in action. It is practical to use the generator under a work laod as a current source of less output (10 - 200 W) with a raised frequency of 400 to 2000 Cycles. A valuable attribute of this generator is the possibility of its application in connec-

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PA - 3111

A Parametric Generator.

tion with hard to regulate systems. In these cases the JPC generator makes it possible to maintain a sufficiently stable voltage by modifying the load from zero to a nominal value. (with 6 illustrations).

ASSOCIATION: Not given

PRESENTED BY:

SUBMITTED: 29.10.1956

AVAILABLE: Library of Congress

Card 2/2

AUTHORS: Zhezherin, R.P., Candidate of Technical Sciences, and
Krupyshev, G.N., Engineer

SOV/110-59-2-2/21

TITLE: A Machine Type High-Frequency Generator with Excitation Circuits (Elektromashinnyy generator vysokoy chasty s vozbuzhdayushchimi konturami)

PERIODICAL: Vestnik Elektropremyshlennosti, 1959, Nr 2, pp 4-8 (USSR)

ABSTRACT: Valve type generators for frequencies of 10 - 30 kc/s and above are very bulky and are difficult to operate on variable loads. There is accordingly great need of machine type generators for such frequencies. The authors have found a new way of increasing the frequency developed by a machine without altering the number of poles on the rotor. With the new generator it is possible to obtain frequency twice as high as from machines of the normal inductor type. This article describes the construction and operating principles of the generator and gives experimental test data. The aim of the tests was not to obtain the highest possible frequency but only to verify the principle of the machine. The machine is illustrated schematically in Fig 1; it has a toothed rotor like that of reactive or inductor machines. On the

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A Machine Type High-Frequency Generator with Excitation Circuits
stator there are teeth which form ridges displaced from one another by an angle of $\pi/2$. So far the generator construction is similar to that of a two-phase inductor machine. Three types of winding are located in the stator slots between the ridges, a control winding with direct current, a two-phase a.c. excitation winding with frequency f_2 and a single phase generated current winding of frequency f_4 . It is explained that $f_4 = 2f_2$. To save space the control and excitation winding can be combined, and this is the circuit illustrated in Fig 2. The operating principles of the generator are as follows: The d.c. in the control winding sets up a magnetic field between the stator and rotor, the distribution of which depends on the position of the rotor teeth. As the rotor turns there is periodic redistribution of this flux between the stator teeth and so e.m.f.'s are induced in the windings just as in a two-phase inductor machine. The connections to each phase are brought out separately, each phase is connected to a capacitor and, therefore, capacitative currents of frequency f_2 flow in the excitation coils. The magnetic reaction field set up by

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the capacitative currents is the excitation field for e.m.f.'s of frequency f_4 that are set up in each of the stator coils. The excitation windings are so connected that the sum of the f_4 frequency currents in them is zero, but in the working windings the e.m.f.'s of frequency f_4 are added together and those of frequency f_2 subtracted. The load is supplied at a frequency f_4 and is connected to the generator terminals through a series capacitor as in Fig 2c or through a parallel capacitor as in Fig 2b. Tests were made on an experimental machine, the main dimensions of which are given. The profiles of the stator and rotor stampings are shown in Fig 3. Design details of the windings are given. The way in which the no-load characteristic is affected by the value of the capacitance in the excitation circuit is demonstrated graphically in Fig 4. The shape of these curves is discussed. Short circuit curves with various values of capacitance in the excitation circuit are given in Fig 5. The relationship between the operating voltage and the control current is given in Fig 6, with one value of capacitance and several values of active load. If

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A Machine Type High-Frequency Generator with Excitation Circuits
the load is too heavy, particularly if it is inductive,
the machine may fail to excite. The behaviour of the
generator on purely capacitative loads is explained with
reference to Fig 7. Figs 8 and 9 show regulation
characteristics for two different values of capacitance
when the load beyond the series capacitor is pure resis-
tance. The effect of voltage on the regulation character-
istics is illustrated by the graphs of Fig 10. The
external characteristics of the generator are shown in
Fig 11 for three types of load, and in Fig 12 for active
load in the circuit with series capacitor and without it
for two values of control current. The generator has
good amplifying properties combined with low time
constants of all the circuits. The oscillogram given in
Fig 13 shows the speed at which the output voltage of the
generator falls when the control winding is short
circuited. The reactive output of the phase capacitors

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A Machine Type High-Frequency Generator with Excitation Circuits
is approximately 4 - 5 times greater than the total
active output of the load circuit. The generator can
also be used as a two-phase inductor.

There are 13 figures.

Card 5/5

AUTHORS Nel'son, K. V.; Podlubnyy, I. Ya; Krupyshev, L. A. and Stepanova, Z. D. SOV/138-58-11-2/14

TITLE: Investigations on the Micro-Structure of Butadiene Rubbers (Issledovaniye mikrostruktury divinilovykh kauchukov)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 11, pp 3 - 5 (USSR)

ABSTRACT: S. V. Lebedev et al. (Ref. 1 - 3) determined the influence of the polymerisation temperature on the content of side chains (vinyl groups) in butadiene rubbers obtained by polymerisation with Li, Na and K. With the aid of this data, dependence of the glass temperature of butadiene polymers on the number of monomer chains, added in the 1,2 position, could be determined (Refs. 5 and 6). The micro-structure of polymers can be defined effectively by analysing their absorption spectra in the infra-red region. Results are given on the dependence of the micro-structure of butadiene rubbers, obtained by catalytic polymerisation, on the conditions of their preparation, the nature of the initiator (Li, Na and K) and the temperature of the process. The infra-red spectra between 800 - 1,000 cm⁻¹ were analysed. The polymer molecule in buta-

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Investigations on the Micro-Structure of Butadiene Rubbers

diene rubbers shows three types of addition to the C=O bond; in the 1,2-, trans-1,4- and cis-1,4- position. If the addition occurs in the 1,2-position absorption occurs in the 909 cm⁻¹ band; heptene-1 was taken as a standard. Analysis of the trans-1,4 configuration showed absorption in the 967 cm⁻¹ band; in this case trans-octene-3 and trans-decene-5 were taken as standard. All samples were tested in CS₂ solutions on a VIKS-MZ apparatus with a NaCl prism. The samples were prepared by Z. A. Khrenovaya. The average experimental error was $\pm 5\%$. The lithium-sodium- and potassium-butadiene polymers were prepared by polymerising butadiene when the temperatures of the thermostat were as follows:- 5, 10, 20, 30, 40 and 60°C. Neozone D (2%) was added to the polymer samples after the gaseous products had been separated under vacuum. The glass temperature, viscosity and physicc-mechanical properties of the samples were determined (Table 1). After purification and vacuum drying at room temperature, 1% of solutions in CS₂ were prepared. Data on the quantitative determination of the micro-structure of the rubbers is given in Table 2.

Card 2/4 The polymerisation temperature influences the micro-structure

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Investigations on the Micro-Structure of Butadiene Rubbers

of lithium-butadiene rubbers (Fig.1). The micro-structure of sodium butadiene rubbers, prepared at various temperatures, is similarly affected (Fig.2). On increasing the polymerisation temperature a decrease in the addition in the 1,2 position and an increase in the number of chains in the cis-1,4 position can be observed. The trans-1,4 configuration does practically not change, and remains at approximately 15%. Hardly any changes occur in the investigated temperature interval in the micro-structure of potassium butadiene rubbers (Fig.3). The ratio:

$$\frac{\text{trans-1,4}}{\text{cis-1,4}}$$

for all samples was ~ 3 (trans-1,4 $\sim 30\%$ and cis-1,4 $\sim 10\%$)
These results agree with data published by A.I.Yakubchik

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SOV/138-58-11-2/14

Investigations on the Micro-Structure of Butadiene Rubbers

et al. (Refs. 2 and 3). There are 2 Tables, 3 Figures
and 11 References: 3 English and 8 Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (Research Institute for Synthetic Rubber im. S. V. Lebedev)

Card 4/4

1. Chernyavskiy, A. A., Cheshnokova, N. N., Krupynskiy, S. A.

2. Mechanism and kinetics of the polymerization of isoprene by

SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka. |
Permanente rapport från Internationell tekniskt seminarium om
isoprénens polymerisering, 1960

1. Isoprene polymerization, kinetics, mechanism, catalyst, catalysis

2. Effect of temperature and concentration of monomer and catalyst on
isoprene polymerization rate and molecular weight of the polymer

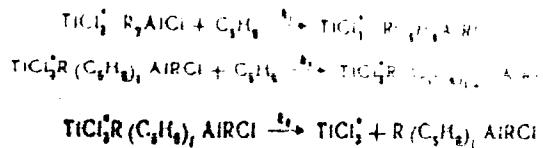
3. Effect of catalyst. Effect of various factors on the effect of a given
catalyst on the polymerization rate and molecular weight. It is shown
that it is described by the equation

$$W \propto \frac{k_1 k_2 k_3}{k_4} (r_0 - R)$$

where: α is a proportionality coefficient, k_1 , k_2 , and k_3 are rate constants of
Card 1/3

A-4P - ATS-10602

the elementary steps of formation of active catalytic centers



n_0 is the actual initial isoprene concentration in the system in mol/l, n_0 is the initial concentration of TiCl_3 molecules in mol/l, k_1 is the rate constant of the first step of the polymerization reaction, k_2 is the rate constant of the second step of the polymerization reaction, k_3 is the rate constant of the deactivation of the active center.

$$-\ln(1-x) = 2\beta e^{-\frac{t}{\tau}} \left(\frac{D}{\epsilon} \right)^{\frac{1}{2}} n_0^{\frac{1}{2}} (v^{\frac{1}{2}} - v)$$

where: x is fraction of converted isoprene, β is a proportionality coefficient, D is diffusion coefficient ($\text{mol} \cdot \text{cm}^2 \cdot \text{min}^{-1}$), v and v' are initial and final instants of polymerization reaction. In the case of isoprene polymerization in absence

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REF ID: A75019602

The length of polymer chains increases with increasing conversion
and decreases with the first order rate of polymerization.

$$L = \frac{k_p t}{k_t (1 + k_{tr})}$$

The length of polymerization in the initial short time interval is proportional to the square root of the conversion.

$$L = 23 \sqrt{C}$$

The molecular weight is practically independent of the reaction depth of conversion with the exception of the first 10% and it is almost independent of catalyst concentration. The polymer microstructure is insensitive to changes in reaction temperature and to variations in monomer or catalyst concentration. (fig. art. has 2 tables, 10 figures and 10 formulas.)

N. S. G.

SUBMITTED: 24 Oct 64

ENCL: 00

SUB CODE: MT, GC

NO REF Sov: 005

OTHER: 001

Card 5/3

UK/0009/54/000/000/0003/0018

Authors: Kostikov, A. A.; Korner, V. A.; Krupyshev, V. A. (Leningrad)

Title: Isoprene rubber

Abstract: Nauchno-issledovatel'skiy institut gomologicheskikh polimerov

Isoprene polymerization was studied with a complex of organometallic catalysts in order to synthesize isoprene rubber.

The abstract is based on the results of the authors. In general, the catalyst $TiCl_3$ reduced with aluminum is used for the polymerization of cis-1,4 units, while the organoaluminum compounds and Al with varying ratios of $Al:SnCl_4$ are used for the polymerization of trans-1,4 units. The authors obtained a polymerized product. In the case of the cis-globule variant the experiments

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TESTS ON TIRE AT 300 & 100°C using a 1 liter stainless steel reactor vessel.
The initial Isoprene concentration was 1.0 mole/liter. The reaction
was carried out in the dark at 100°C for 1 hour. The product was
approximately 10% isoprene.
The polymer was isolated by precipitation in
methanol and dried. The polymer had a
softening point of 100°C and best mechanical and physical properties
at 100°C.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

BAGDYK'YANTS, G.O.; KRUPYSHEVA, L.S.

Electron microscope studies of cellulose ester fibers in
ultrathin sections. Zav.lab. 28 no.11:1²51 '62. (MIRA 15:11)
(Cellulose esters) (Electron microscopy)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

S/079/60/030/011/020/026
B001/B055

AUTHORS: Gorin, Yu. A., Svetozarova, V. M., Gorn, I. K., and
Krupysheva, T. A.

TITLE: Investigation on the Catalytic Hydration of Acetylene and Its
Derivatives in the Gas Phase. VII. Study on Copper-phosphate/
Calcium-phosphate Catalysts

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 11, pp. 3817-3822

TEXT: Basing on the publications Refs. 1-8, the authors of the present work studied the action of copper phosphate and various other copper salts as agents for bringing about the hydration of acetylene. Calcium phosphate was used as second component, since Ref. 9 mentions the greater stability of catalysts prepared with this carrier. The authors tested the copper phosphate catalyst, and its mixtures with calcium phosphate. Calcium phosphate, which is inactive itself, is activated by addition of 0.01% copper phosphate, this activation increasing with higher percentages of copper phosphate up to a maximum at 0.3%. Higher percentages reduce the

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Investigation on the Catalytic Hydration of
Acetylene and Its Derivatives in the Gas
Phase. VII. Study on Copper-phosphate/
Calcium-phosphate Catalysts

S/079/60/030/011/020/026
B001/B055

activity. The authors were interested to find out how a variation in calcium-phosphate composition would affect the copper-phosphate/calcium-phosphate catalyst. Several catalysts were prepared which contained 0.1% copper phosphate applied to mixtures of secondary- and tertiary calcium phosphate of various compositions. It was shown that the application of 0.1 - 0.3% copper phosphate onto calcium phosphate leads to highly active and selective catalysts for the hydration of acetylene. It was found that the activity of the copper-phosphate/caicium-phosphate catalyst depends on its content of neutral and acid calcium phosphates. Catalysts of a composition approaching neutral tertiary phosphate have the highest activity. Addition of 0.1 - 0.3% of other copper (II) salts to the calcium phosphate has about the same effect as addition of the same amount of copper phosphate. The activity of catalysts prepared with metallic copper and copper (I) chloride is low. By applying the copper-phosphate/calcium-phosphate catalyst, prepared in the required manner, the hydration process of acetylene can be carried out in a 100 h working cycle at an average catalyst working life of 600 h. There are 1 table and 14 references:

Card 2/3

Investigation on the Catalytic Hydration of Acetylene and Its Derivatives in the Gas Phase. VII. Study on Copper-phosphate/Calcium-phosphate Catalysts S/079/60/030/011/020/026
B001/B055

11 Soviet, 2 US, 1 French, and 1 German.

SUBMITTED: October 24, 1959

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Card 3/3

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

DANNOV, L.V., PIUS, G.I.

Strength, adhesion and deformation characteristics of
perchlorovinyl coatings. Lakokras.mat. i ikh prim. no. 2:30-32
'64.
(MIRA 17:4)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9

KRUS, S.

The noncellular forms of life, according to Lepassynska and Gravitz.
Polski tygod. lek. 7 no. 11-12:325-327 24 Mar 1952. (CLML 22:4)

1. of the Institute of Pathological Anatomy of Warsaw Medical Academy.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810007-9"

KRUS, S.

Noncellular forms of life, according to Lepessynska and Gravitz.
Polski tygod. lek. 7 no. 13:367-371; concl. 31 Mar 1952. (CLML 22:4)

ZAHORSKA, A.; BERGER, S.; KRUS, S.

Modified value of vitamin A in experimental diseases of the liver. Polski
tygod. lek. 8 no.37-39:1365-1366 28 Sept 1953. (CLML 25:4)

1. Of the Gastrological Clinic (Head--Prof. L. Plocker, M.D.) and of
the Institute of Patholgical Anatomy (Head--Prof. L. Paszkiewicz, M.D.)
Warsaw Medical Academy and of the Division of Hygiene of Nutrition
(Head--Prof. A. Szczygiel, M.D.) of State Institute of Hygiene.

KRUS, Stefan

General pathology of inflammation. Polski tygod. lek. 9 no.32:1017-1019; contd. 9 Aug 54.

1. Z Zakladu Anatomii Patolog. Ak. Med. w Warszawie; kierownik: prof.
dr med. L.Paszkiewicz.
(INFLAMMATION, pathology.)

KRUS, Stefan

General pathology of inflammation, Polski tygod. lek. 9 no.33:1052-1054; contd. 16 Aug 54.

1. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Warszawie;
kierownik prof. dr med. Ludwik Paszkiewicz.
(INFLAMMATION, pathology.)

KRUS, Stefan

General pathology of inflammation. Polski tygod. lek. 9 no.34:
1077-1084; concl. 23 Aug 54.

1. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Warszawie;
kierownik: prof. dr L.Paszkevics.
(INFLAMMATION, pathology.)

ZAHORSKA, Alina; HERCER, Stanislaw; KRUS, Stefan

Studies on vitamin A in liver diseases. I. Diagnostic and prognostic values of vitamin A in the blood. Polski tygod. lek. 10 no.3:75-80
17 Jan 55

1. Z Kliniki Gastrologicznej Akademii Medycznej w Warszawie, Kierownik:
prof. dr med. L.Płocicki, z Działu Higieny Żywnienia Państwowego
Zakładu Higieny w Warszawie, kierownik: prof. dr med. A.Szczygiel i
z Zakładu Anatomii Patologicznej Akademii Medycznej w Warszawie,
kierownik: prof. dr med. Paszkiewicz.

(BLOOD,
vitamin A in liver dis., diag. & progn. values)
(VITAMIN A, in blood,
in liver dis., diag. & progn. values)
(LIVER, diseases,
blood vitamin A in, diag. & progn. values)

ZAHORSKA, Alina; BERGER, Stanislaw; KRUS, Stefan

Studies on vitamin A in liver diseases. II. Relation of vitamin A
in the liver to its experimental ethyl alcohol lesions. Polski
tygod. lek. 10 no.4;99-105 24 Jan 55.

1. Z Kliniki Gastrologicznej Akademii Medycznej w Warszawie; kierownik:
prof. dr med. L.Płocker; z Działu Higieny żywienia Państwowego
zakładu Higieny w Warszawie; kierownik: prof. dr med. A.Szczygiel;
z Zakładu Anatomii Patologicznej Akademii Medycznej w Warszawie;
kierownik: prof. dr L.Paszkiewicz.

(VITAMIN A, metabolism,
liver, eff. of prolonged ethyl alcohol admin. in rats)

(LIVER, metabolism,
vitamin A, eff. of prolonged ethyl alcohol admin. in rats)
(ALCOHOL, ETHYL, effects,
on liver vitamin A in rats)

KRUS, Stefan

Role of the endocrine system in pathogenesis of tuberculosis with
special reference to the adreno-pituitary system. Polski tygod.
lek. 11 no.42:1805-1810 15 Oct 56.

1. Z Zakladu Patomorfologii P.A.N. kierownik prof. dr. nauk.
med. Ludwik Paszkiewicz. Warszawa 1, ul. Chalubinskiego 5,
Zaklad Patomorfologii PAN.

(TUBERCULOSIS, etiology and pathogenesis,
adreno-pituitary factor, review (Pol))

(ADRENAL CORTEX, in various diseases,
tuber., pathogen. role of adreno-pituitary system, review
(Pol))

(PITUITARY GLAND, ANTERIOR, in various diseases,
same)

ZAGORA, Edward; KRUS, Stefan

Observations on a case of cyst of Krause's gland. Polski tygod. lek.
13 no.12:442-444 14 Mar 56.

1. W Polska Ekipa Lekarzy Specjalistow w Korei; kierownik: Jan Jaworski
Konsultant Kliniki Okulistycznej Akademii Medycznej w Ham hynie; Edward
Zagora konsultant Zakladu Anatomii Patologicznej Akademii Medycznej w
Hamhynie: Stefan Krus.

(CONJUNCTIVA, cysts
of Krause's gland (Pol))

KRUS, Stefan.;NALEWAJKO, Lidia.

Bilateral symmetric necrosis of the renal cortex. Polski tygod. lek.
12 no.16:592-597 15 Apr '57.

1. (Z Zakladu Anatomii Patologicznej Akademii Medycznej w Warszawie;
kierownik: prof. dr med. Indwik Paszkiewicz; z II Kliniki Chorob
Wewnetrznych Akademii Medycznej w Warszawie; kierownik: Prof. dr med.
Dmitri Aleksandrow). Warszawa 1, ul. Chalubinskiego 5, Zaklad Anatomii
Patologicznej.

(KIDNEY DISEASES

Necrosis of cortex, bilateral symmetric (Pol))

KRUS, S.: JAMPOLER, L.

Experimental necrosis of the liver in rats based on food deficiency. P 293

Poland
ROCZNIKI (Panstwowy Zaklad Higieny) Warsaw Vol. 9, no. 3, 1958

Monthly List of East European Accessions (EEAI) LC. Vol. 7, no. 7, 1959 (July)

Uncl.

KRUS, Stefan

Analysis and comparison of autopsy cases in Poland and in Korea
during 1956-57. Polski tygod. lek. 14 no.49:2150-2154 7 Dec 59.

1. (Z Zakladu Anatomii Patologicznej A. M. w Warszawie; kierownik:
prof. dr n. med. Ludwik Paszkiewicz; z Prosektury Szpitala Miejskiego Nr 4 w
Warszawie; kierownik: prof. dr med. Janina Dabrowska; z V Polskiej
Ekipy Lekarszy Specjalistow w Korei; kierownik Ekipy: dr med. Jan
Jaworski, konsultant anatomoatolog: lek. Stefan Krus).
(AUTOPSY, statist.)

KRUS, Stefan, adiunkt

Effect of sex and sex hormones on the appearance of liver necrosis
in nutritional deficiency in rats. Rospr.wydz.nauk med. 5 no.2:207-231
'60.

l. Z Zakladu Patologii Doswiadczennej Polskiej Akademii Nauk w Warszawie
Kierownik: prof. dr n. med. Ludwik Paszkiewicz oraz z Zakladu Anatomii
Patologicznej Akademii Medycznej w Warszawie Kierownik: prof. dr med.
Janina Dabrowska (Przedstawili: prof. dr med. Aleksander Szczygiel,
prof. dr med. Julian Walawski)

(LIVER physiol) (SEX HORMONES pharmacol)
(SEX CHARACTERISTICS) (DEFICIENCY DISEASES exper)

KRUS ,Stefan

Histopathological picture and development of tuberculous changes
of the liver in guinea pigs. Pat polska 11 no.1:29-42'60.

l. Z Zakladu Patomorfologii PAN, Kierownik: prof. dr nauk med.
Ludwik Paszkiewica, Kierownik Pracowni Morfologicznej: doc. dr
med. Zygmunt Kuszelewski.
(TUBERCULOSIS HEPATIC exper.)

BANKOWSKI, Zbigniew; BICZOWA, Barbara; GORSKI, Michal; KRUS, Stefan;
LEWICKI, Zdzislaw; RUSCZEWSKI, Zygmunt; STARZYNSKI, Stefan

Behavior of glycogen, fats and nucleic acids in the rat liver in acute
radiation sickness. Pat. pol. 13 no.3:325-336 '62.

1. Z Pracowni Patomorfologii Zakladu Patologii Doswiadczałnej PAN w
Warszawie. Kierownik: prof. dr med. L. Paszkiewicz. Kierownik pracowni:
doc. dr med. Z. Ruszczewski.

(RADIATION INJURY EXPERIMENTAL) (LIVER GLYCOGEN)
(LIVER) (NUCLEIC ACIDS) (LIPID METABOLISM)

KARWOWSKA-STAUBER, Ludwika; TATON, Jan; KRUS, Stefan

Pyelonephritis in diabetes. Clinical and anatomo-pathological analysis during the period 1951-1961. Pol. arch. med. wewn. 33 no.4:421-432 '63.

1. Z III Kliniki Chorob Wewnętrznych AM w Warszawie. Kierownik: prof. dr med. E. Kodejssko i z Zakładu Anatomii Patologicznej AM w Warszawie Kierownik: prof. dr med. J. Dabrowska.
(PYELONEPHRITIS) (DIABETES MELLITUS)
(STATISTICS) (PATHOLOGY)